

ABSTRACT OF THE DISCLOSURE

A novel monoclonal antibody that specifically recognizes phosphatidylinositol-3,4-biphosphate (PI-3,4-P₂) but does not cross-react with structurally similar phospholipid antigens is
5 advantageous for PI-3,4-P₂-specific immunoassay. The gene in the variable regions of the monoclonal antibody has been identified, which enables producing recombinant antibodies.

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